

## CHANNEL SELECTING DEVICE

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### Abstract

**PURPOSE:** To perform invariably accurate AFC operation without reference to whether a tuning voltage is high or low by applying the AFC voltage of an AFC detecting circuit to an emitter follower circuit and then applying it to a synthesizing resistance network.

**CONSTITUTION:** The AFC voltage of an AFC detecting circuit 5 is applied to the base of a transistor (TR) 7 constituting an emitter follower circuit 6 and an output is led out of the emitter and applied to a synthesizing resistance network 8; and it is synthesized with a tuning voltage at a prescribed ratio, and the resulting voltage is applied to the varactor diode 2 of an electronic tuner 1. Consequently, the AFC wave detecting circuit 5 is separated from the network 8 and the center voltage of the AFC voltage is held stably at the constant level obtained by adding the base-emitter voltage of the TR7 to the bias voltage depending upon the voltage division ratio of resistances 9 and 10.